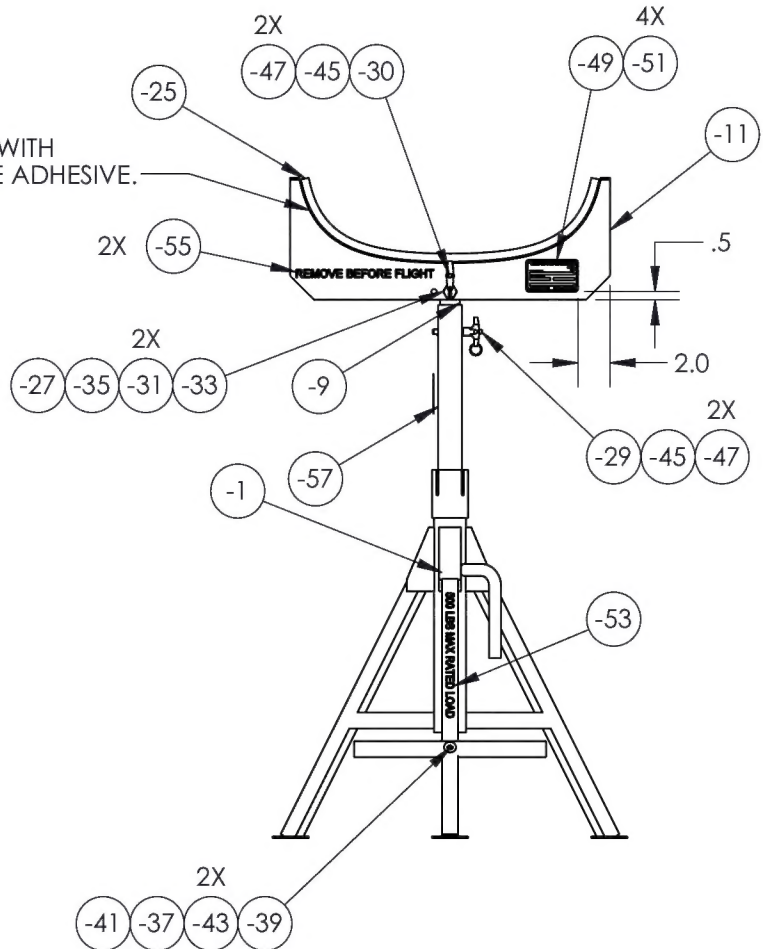
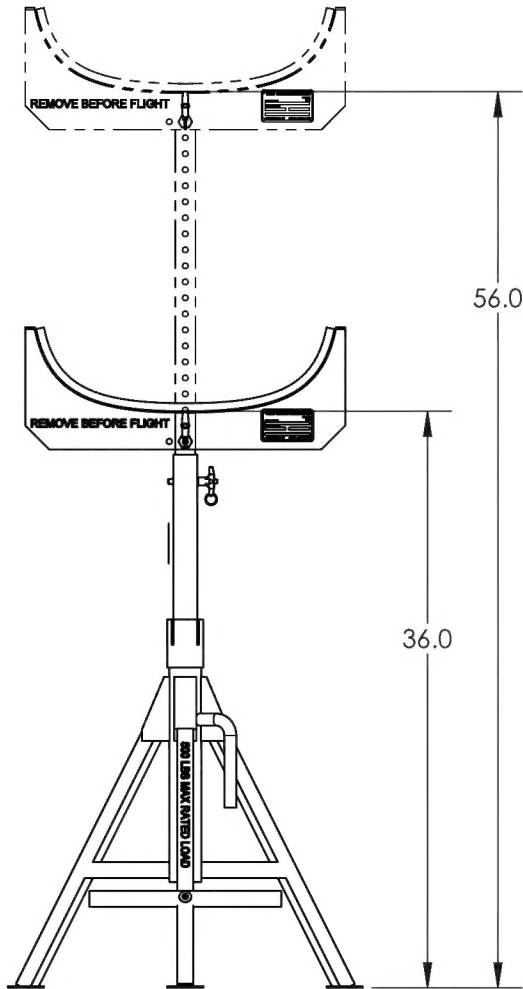
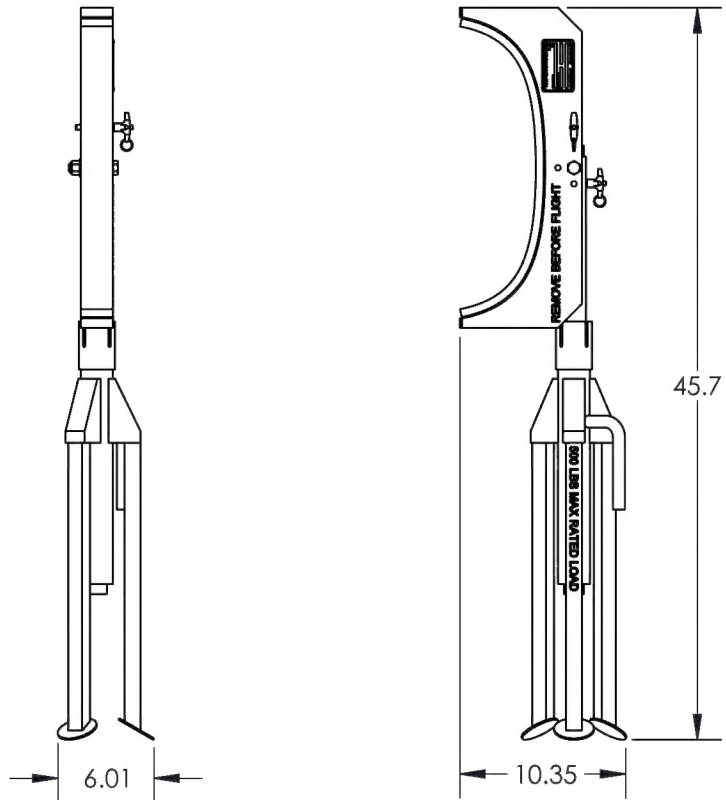



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ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-1	1	BOTTOM WELDMENT			2
	1		-3		JACK		SUMNER MANUFACTURING CO. (MODIFIED)	3
	1		-5		COLLAR	STEEL	Ø2-1/4 X .156 WALL X 3	4
	1		-7		OUTER TUBE	STEEL	1-1/2 X 1-1/2 X .095 WALL X 12	5
			-9	1	INNER TUBE	STEEL	1-1/4 X 1-1/4 X .105 WALL X 28 PERFORATED TUBE	6
X			-11	1	TOP WELDMENT			7
1			-13		CRADLE	6061	.090 X 2 X 23-7/8	8
2			-15		FRONT PLATE	6061	1/8 X 7-5/8 X 20-1/8	9
2			-17		SIDE PLATE	6061	1/8 X 1-7/8 X 5-7/8	10
2			-19		DOUBLER	6061	1/8 X 2-1/8 X 1-1/8	11
2			-21		RIB	6061	1/8 X 1-3/8 X 1-3/8	12
2			-23		CLOSE OUT	6061	1/8 X 2-1/8 X 3/4	13
			-25	1	FOAM	XP-60 (OR EQUIVALENT)	1/2 X 2 X 24 LIGHT CHARCOAL #17913 IR SPECIALTIES	14
		B/O	-27	1	HEX LOCKNUT	S.S.	1/2-20 MCMaster-CARR #91831A140	1
		B/O	-29	1	QUICK RELEASE PIN	S.S.	Ø5/16 X 1-1/2 MCMaster-CARR #90293A212	1
		B/O	-30	1	QUICK RELEASE PIN	S.S.	Ø5/16 X 2 MCMaster-CARR #90293A213	1
		B/O	-31	2	FLANGED BEARING	SAE 863	Ø1/2 X 3/8 MCMaster-CARR #2938T11	1
		B/O	-33	1	HEX HEAD CAP SCREW	S.S.	1/2-20 X 2-3/4 MCMaster-CARR #92198A440	1
		B/O	-35	1	WASHER	S.S.	1/2 AN960-816L	1
		B/O	-37	1	CINCH STRAP	NYLON-RED	1 X 24 MCMaster-CARR #3955T354	1
		B/O	-39	1	PAN HEAD PHILLIPS MACHINE SCREW	S.S.	10-32 X 1-1/2 MCMaster-CARR #91735A841	1
		B/O	-41	1	NYLON INSERT HEX LOCKNUT	S.S.	#10-32 MCMaster-CARR #91831A411	1
		B/O	-43	2	WASHER	S.S.	#10 MCMaster-CARR #91525A115	1
		B/O	-45	2	LANYARD	COATED STEEL	Ø1-16 X 16 CARR LANE #CL2C	1
		B/O	-47	4	FERRULE	ALUMINUM	Ø1-16 X 3/8 MCMaster-CARR # 3896T31	1
		B/O	-49	1	RED BARN PLACARD	ALUMINUM	RB41009	1
		B/O	-51	4	#2 DRIVE SCREW	COATED STEEL	1/8 MCMaster-CARR #90081A074	1
		B/O	-53	1	LABEL	VINYL	BLACK, CUT VINYL SIGNS NOW	15
		B/O	-55	2	LABEL	VINYL	WHITE, CUT VINYL SIGNS NOW	16
		B/O	-57	1	LABEL	VINYL	BLACK CUT VINYL SIGNS NOW	17
ASSY -11	ASSY -1							

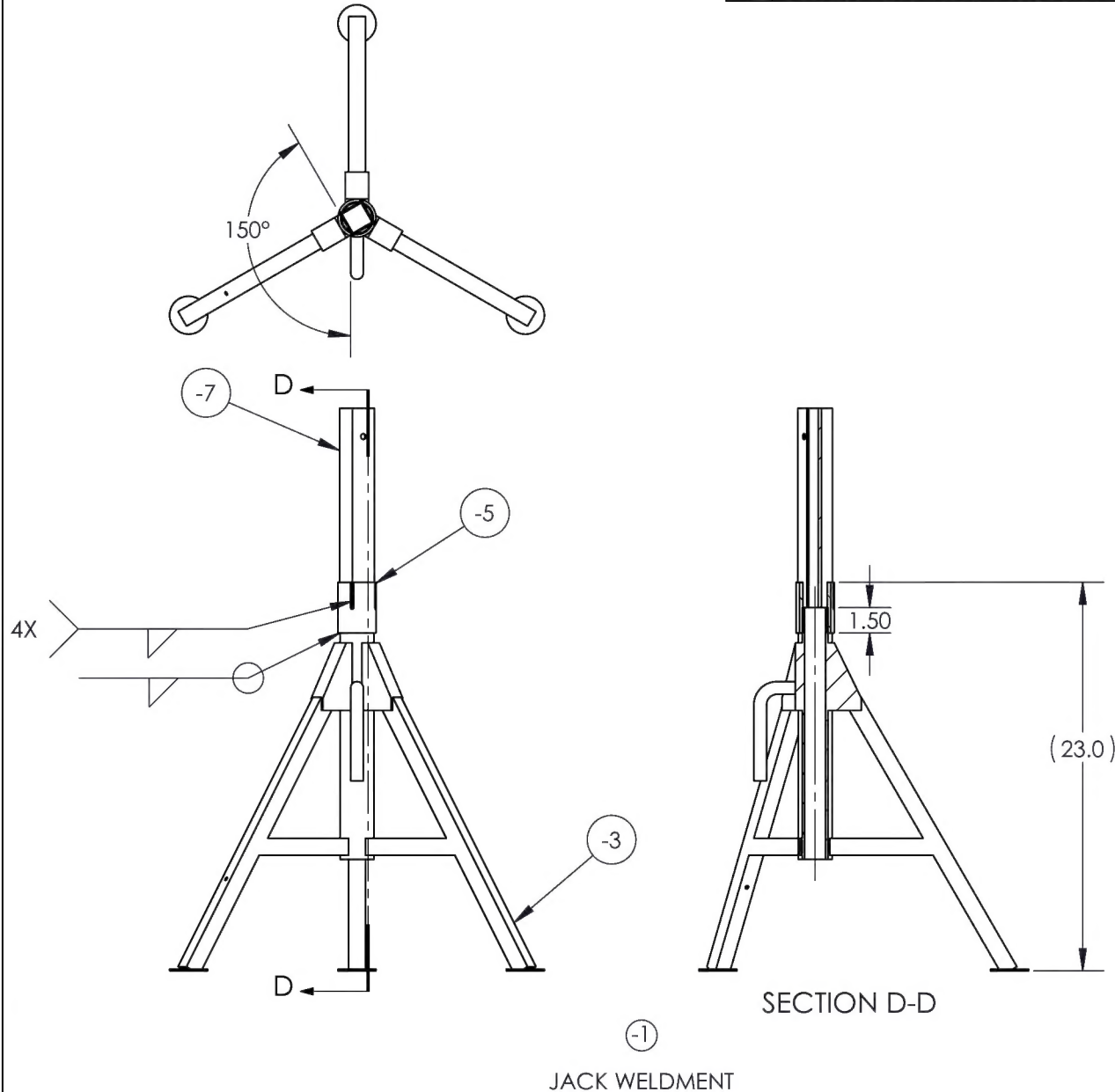
REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-1 CH'D ALIGNMENT OF -5 & -7 WAS PERPENDICULAR TO HANDLE IS 150° TO HANDLE. -5 ADDED .09 RADIUS TO SLOTS WAS FLAT, CH'D WALL THICKNESS WAS .109 IS .156. -11 CHANGED WELD CALLOUTS. -25 ADDED MATERIAL NUMBER TO BOM. -30 ADDED Ø5/16 X 2 PIN, DELETED QTY 1 -29. -35 CH'D PART NUMBER WAS MCMaster-CARR #93852A113 IS AN960-816L.	6/18/2013	CFS	

500 LBS MAXIMUM RATED LOAD

 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412	REV 1
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING
USED ON MODEL FIREBIRD	
SCALE 1:12	DATE 3/27/2013
SHEET 1 OF 17	

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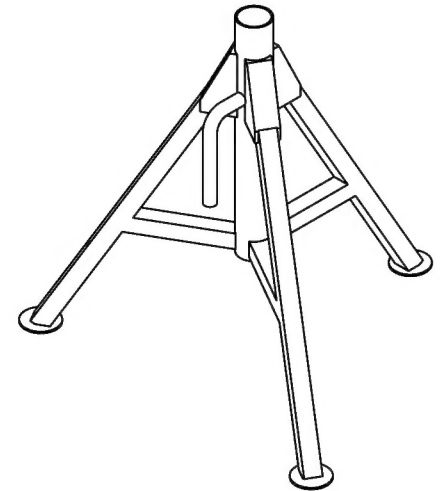
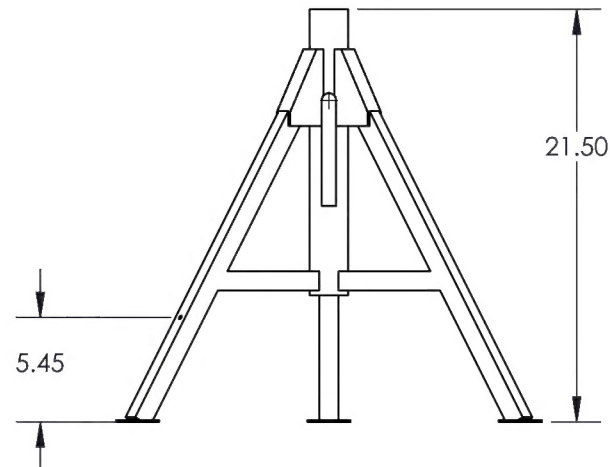
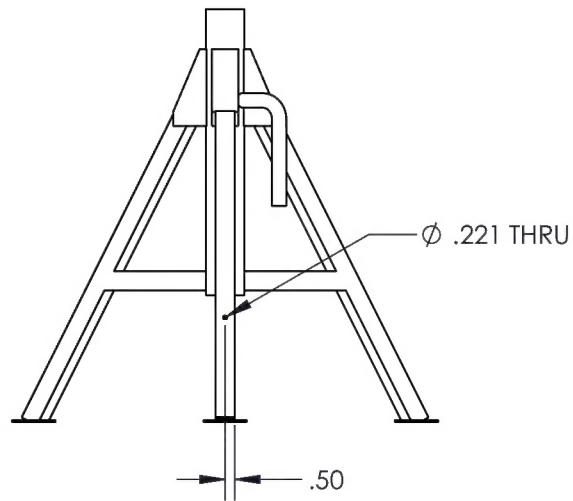
REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-1 CH'D ALIGNMENT OF -5 & -7 WAS PERPINDICULAR TO HANDLE IS 150° TO HANDLE.	7/18/2013	CFS	




RED BARN MACHINE	
BOOM SUPPORT	
DWG NO.	REV 1
RBT18412-1	
MAT'L	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH POWDER COAT RED
.X ± .1	SPEC RAL 3000
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIREBIRD
SCALE 1:10	DATE 3/28/2013
SHEET 2 OF 17	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



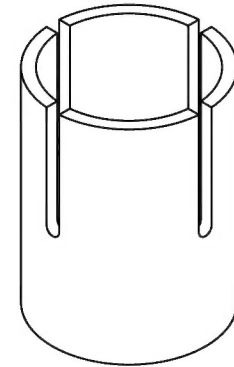
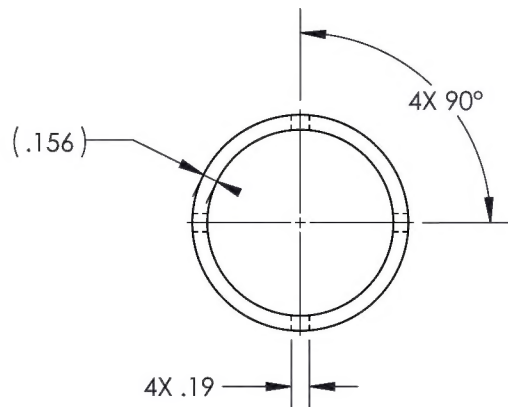
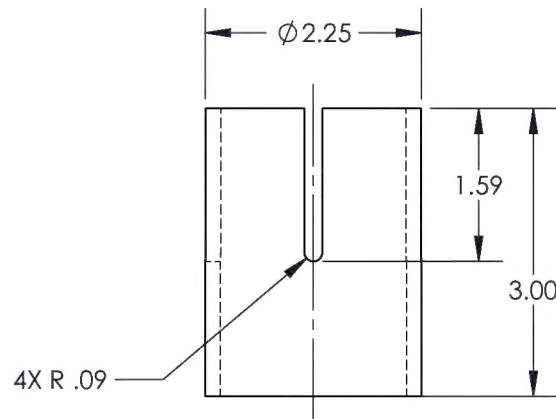
(-3)
JACK

 RED BARN MACHINE	
BOOM SUPPORT	
DWG NO.	REV
RBT18412-3	1
MAT'L	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	APPROVED <i>D Weil</i> HEAT TREAT FINISH SEE -1 WELDMENT SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIREBIRD
SCALE 1:10	DATE 3/29/2013 SHEET 3 OF 17

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REVISIONS

REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-5 ADDED .09 RADIUS TO SLOTS WAS FLAT, CH'D WALL THICKNESS WAS .109 IS .156.	6/18/2013	CFS	

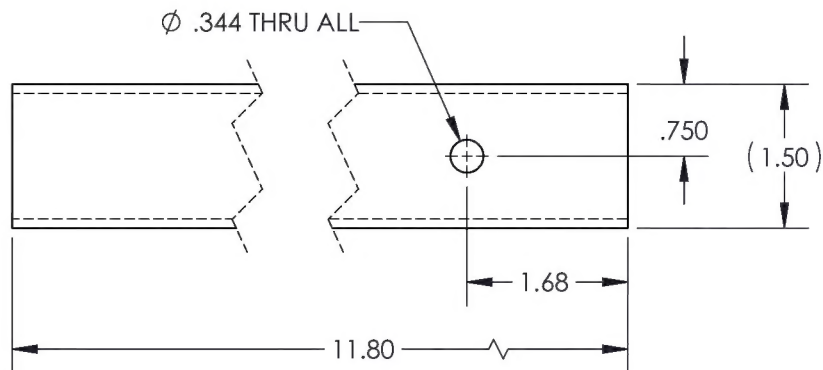
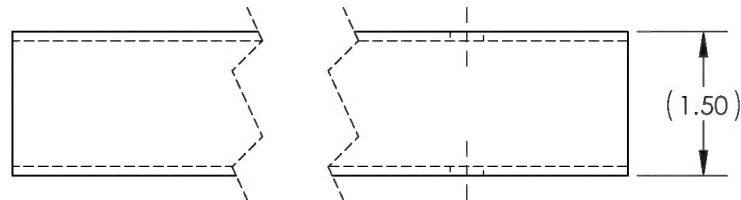


(-5)
COLLAR

RED BARN MACHINE	
BOOM SUPPORT	
DWG NO.	REV
RBT18412-5	1
MAT'L STEEL	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -1 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIREBIRD
SCALE 1:2	DATE 3/28/2013
SHEET 4 OF 17	

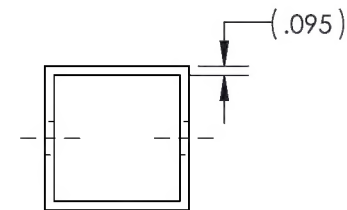
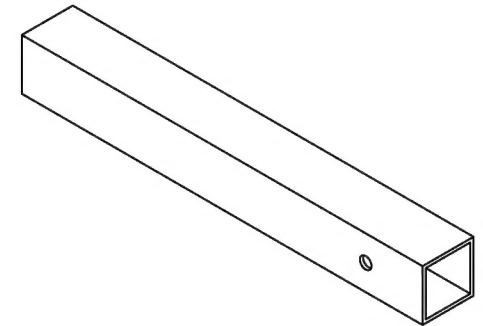
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



⑦

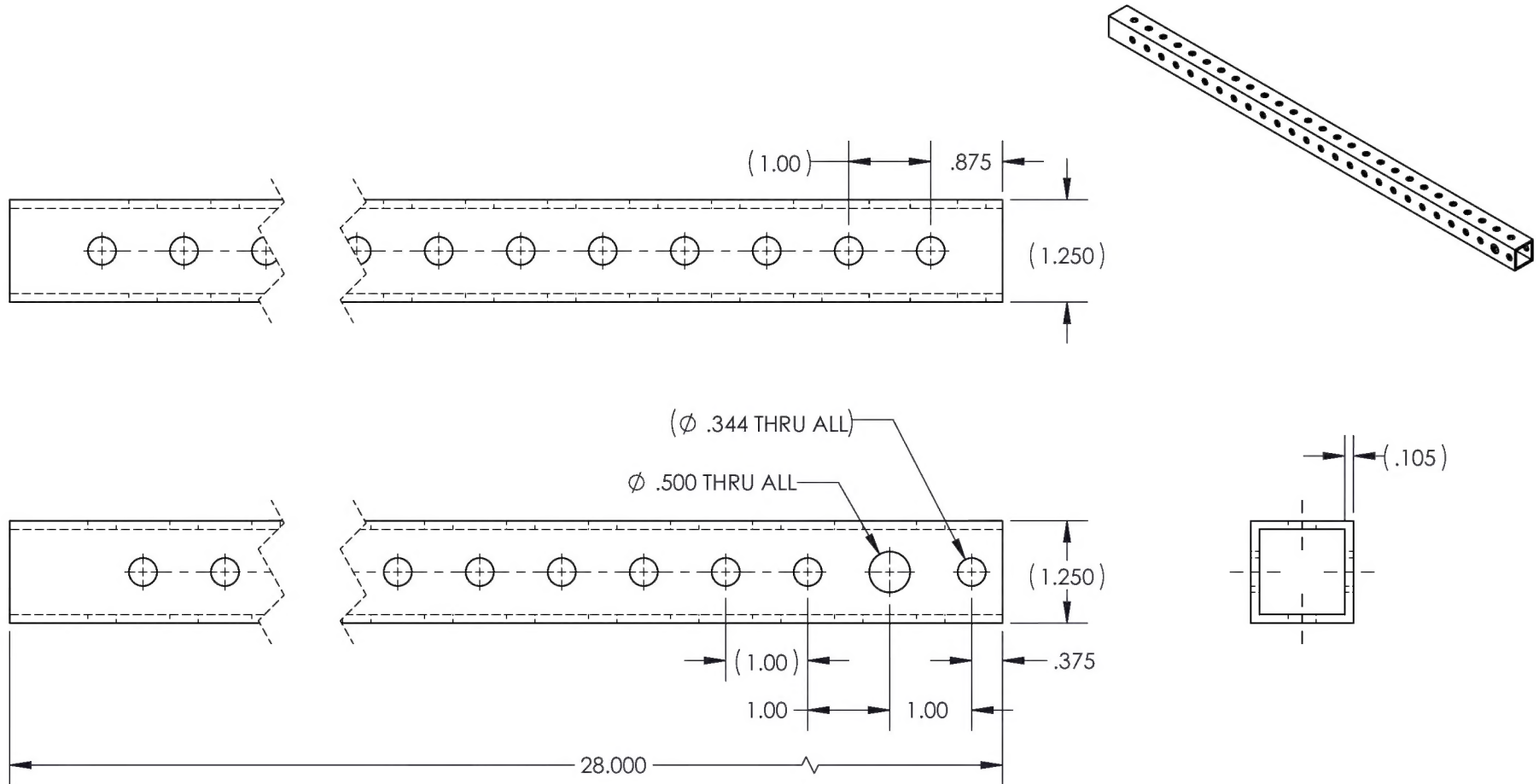
OUTER TUBE




 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412-7	REV 1
MAT'L STEEL	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	APPROVED  HEAT TREAT SEE -1 WELDMENT SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIREBIRD
SCALE 1:2	DATE 3/28/2013
SHEET 5 OF 17	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

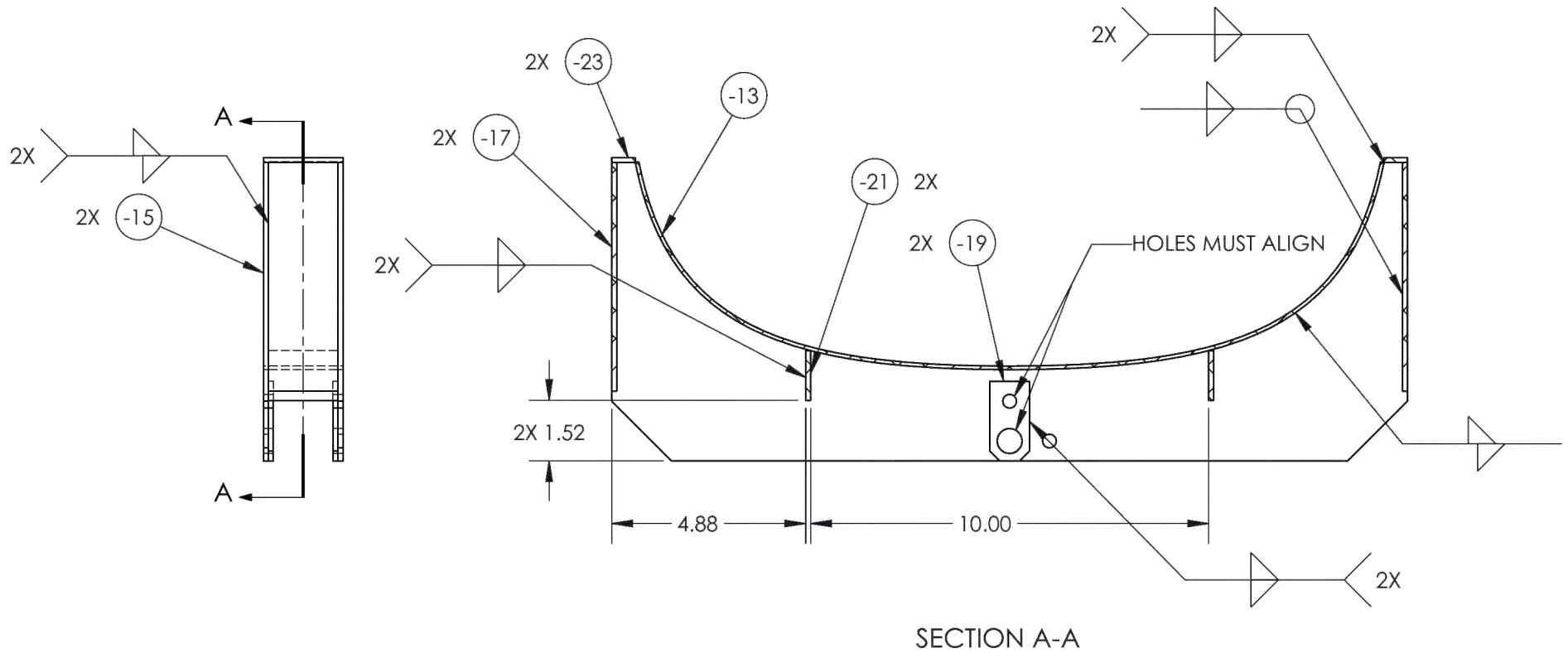


(-9)
INNER TUBE

 RED BARN MACHINE	
BOOM SUPPORT	
DWG NO.	REV
RBT18412-9	1
MAT'L STEEL	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm .005$	HEAT TREAT
.XX $\pm .01$	FINISH POWDER COAT RED
.X $\pm .1$	SPEC RAL 3000
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIREBIRD
SCALE 1:2	DATE 3/28/2013
SHEET 6 OF 17	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-11 CHANGED WELD CALLOUTS.	6/18/2013	CFS	

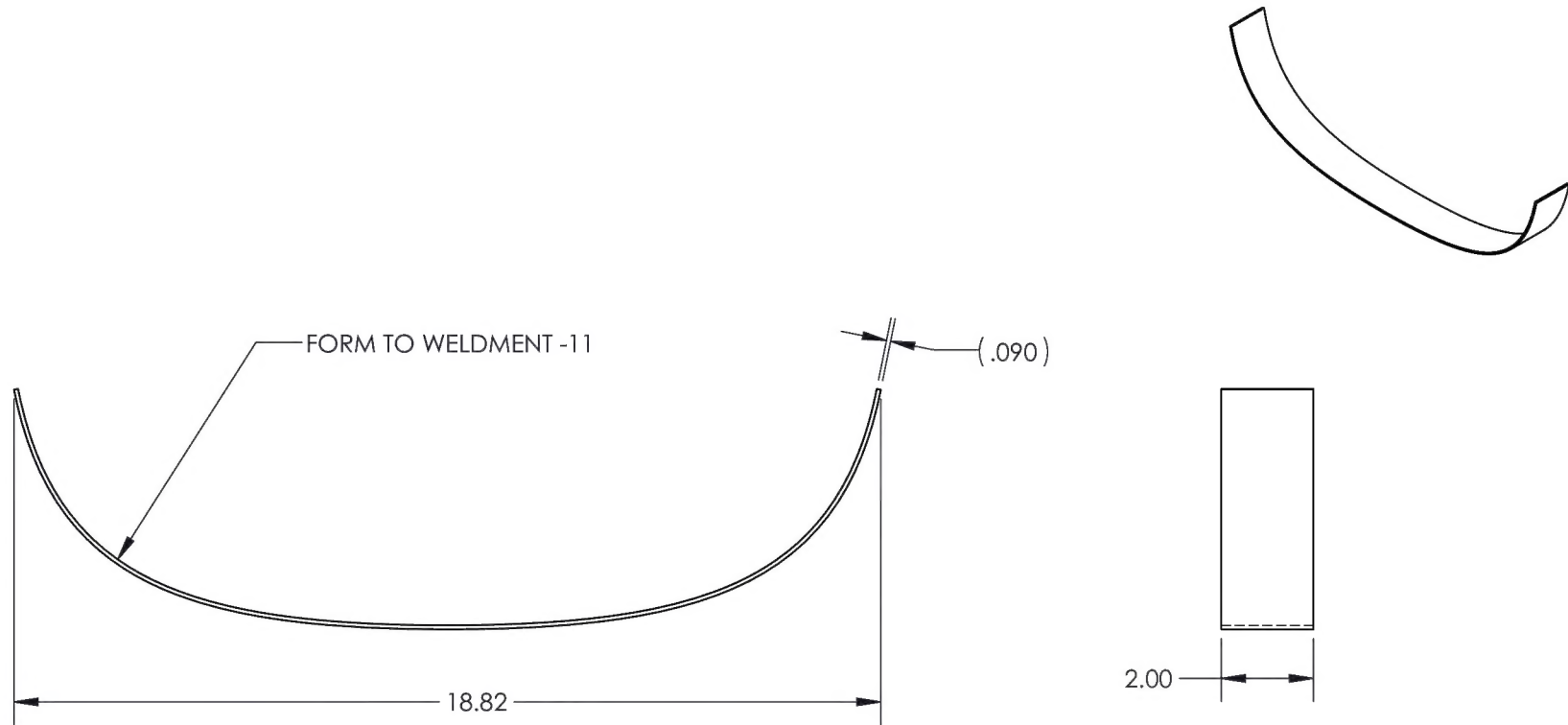


(-11)
CRADLE WELDMENT



RED BARN MACHINE	
BOOM SUPPORT	
DWG NO.	REV 1
RBT18412-11	
MAT'L	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH POWDER COAT RED
.X ± .1	SPEC RAL 3000
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIREBIRD
SCALE 1:4	DATE 3/26/2013
SHEET 7 OF 17	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

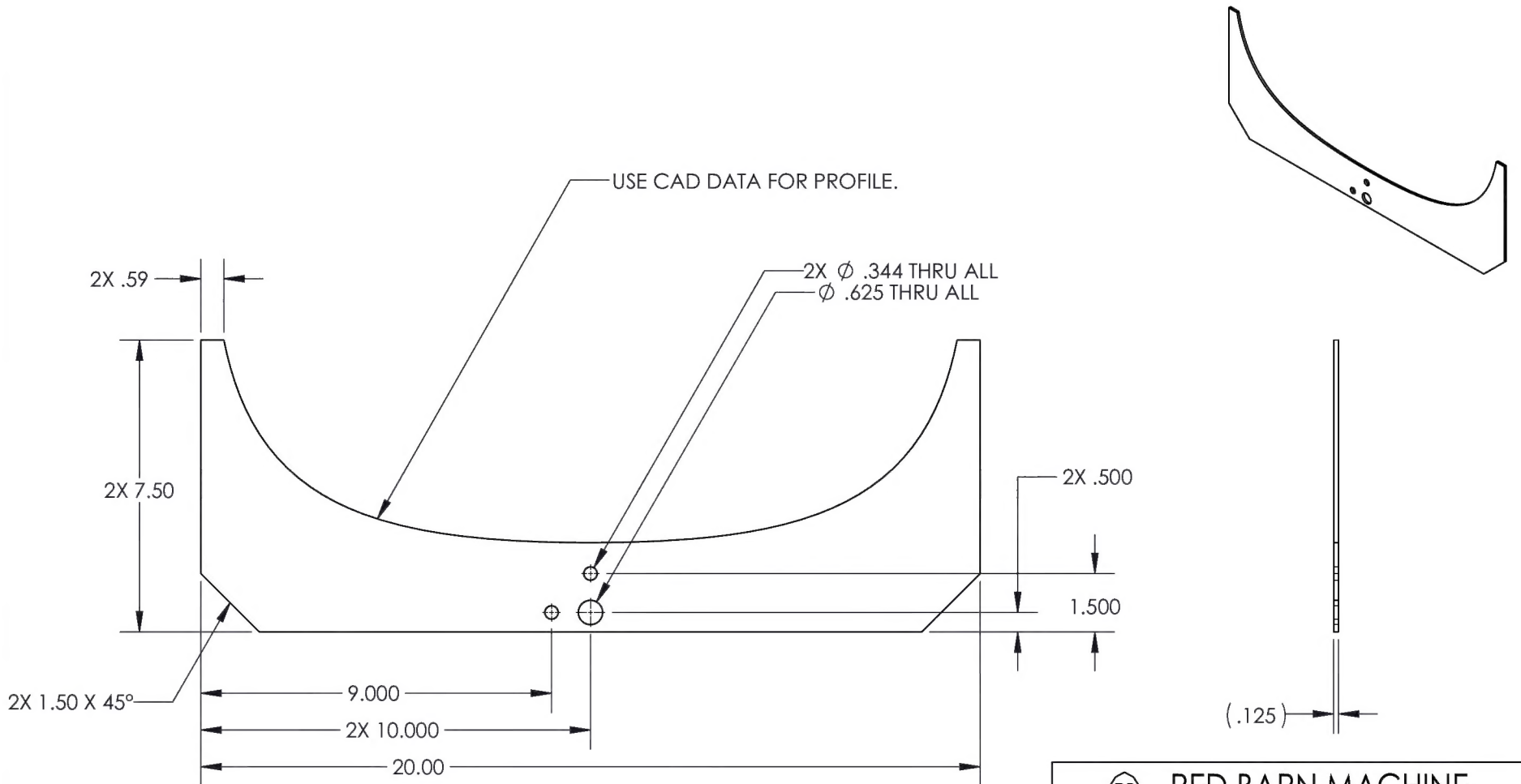


(-13)
CRADLE

 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412-13	REV 1
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	APPROVED 
FRACTIONS ± 1/32 ANGLES ± 5°	HEAT TREAT SEE -11 WELDMENT
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SPEC USED ON MODEL FIREBIRD
SCALE 1:4	DATE 3/28/2013
SHEET 8 OF 17	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED



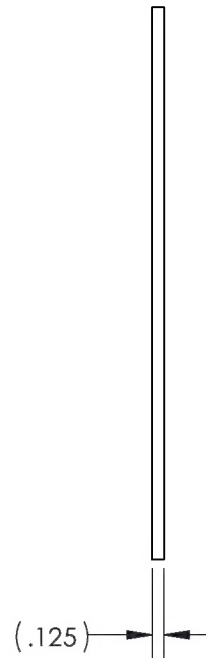
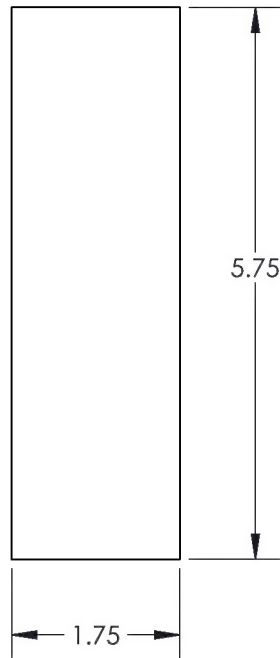
(-15)
FRONT PLATE

RED BARN MACHINE	
BOOM SUPPORT	
DWG NO.	REV 1
RBT18412-15	
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -11 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIREBIRD
SCALE 1:4	DATE 3/28/2013
SHEET 9 OF 17	

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REVISIONS

REV	DESCRIPTION	DATE	INITIAL	APPROVED
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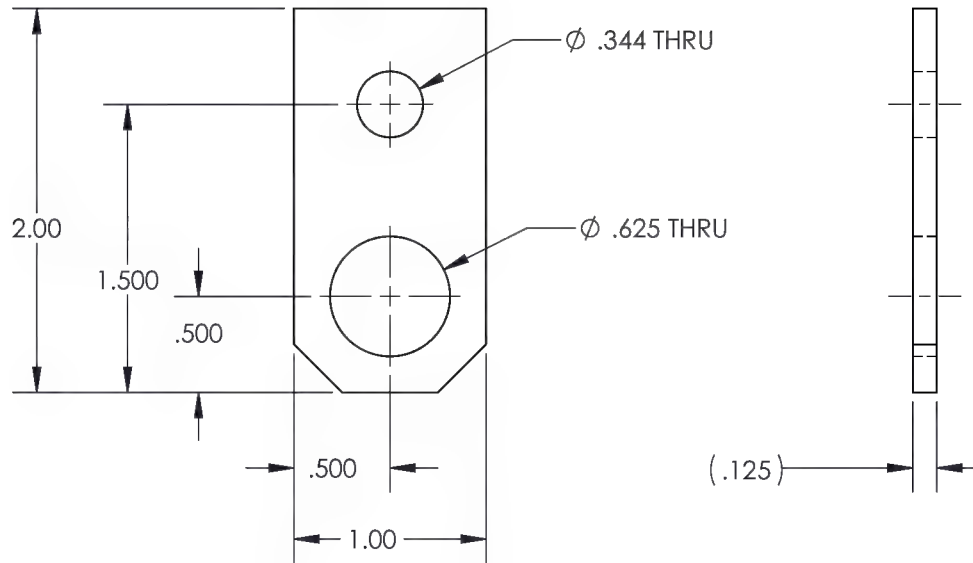
(-17)

SIDE PLATE


 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412-17	REV 1
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
APPROVED <i>D Weil</i>	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
USED ON MODEL FIREBIRD	
SCALE 1:2	DATE 3/28/2013
SHEET 10 OF 17	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

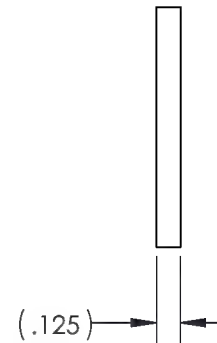
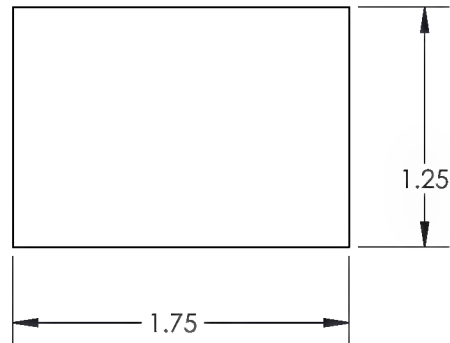
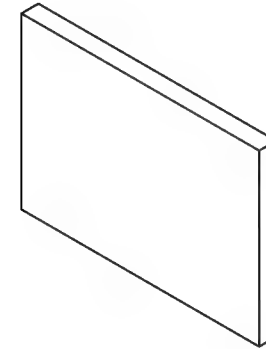


(-19)
DOUBLER

 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO.	REV
RBT18412-19	1
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -11 WELDMENT
.X ± .1	ANGLES ± 5°
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	FIREBIRD
SCALE 1:1	DATE 3/28/2013
	SHEET 11 OF 17


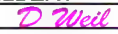
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



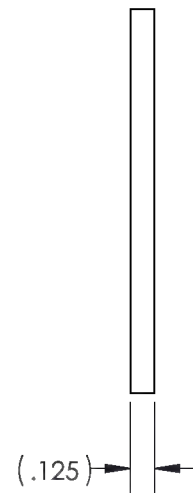
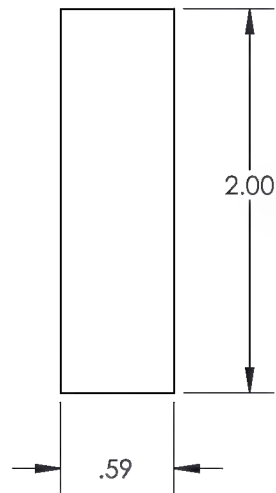
(-21)

RIB



 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412-21	REV 1
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	APPROVED 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	HEAT TREAT SEE -11 WELDMENT SPEC USED ON MODEL FIREBIRD
SCALE 1:1	DATE 3/28/2013 SHEET 12 OF 17

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



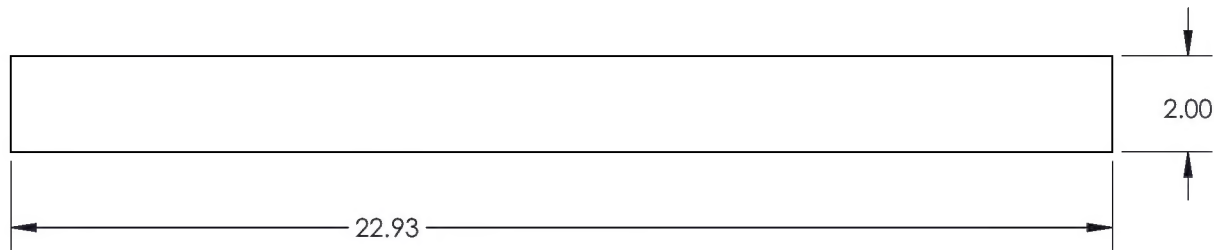
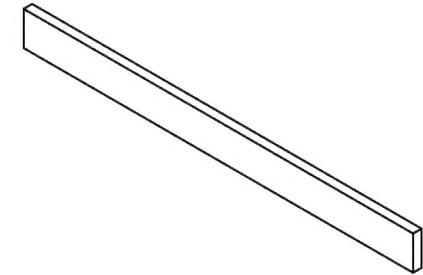
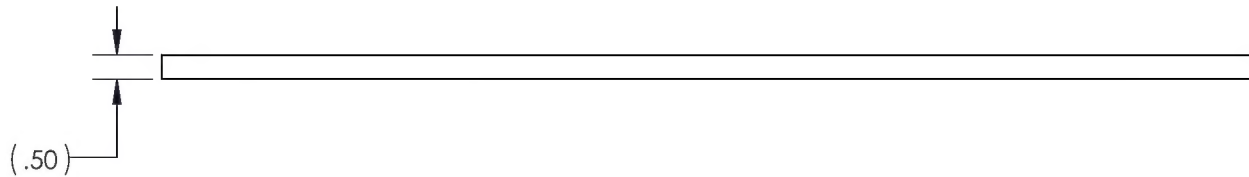
(-23)
CLOSE OUT

 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412-23	REV 1
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	APPROVED  HEAT TREAT FINISH SEE -11 WELDMENT SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIREBIRD
SCALE 1:1	DATE 3/28/2013 SHEET 13 OF 17


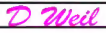
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REVISIONS

REV	DESCRIPTION	DATE	INITIAL	APPROVED
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(-25)
FOAM

 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412-25	REV 1
MAT'L XP-60 (OR EQUIVALENT)	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1	APPROVED  HEAT TREAT FINISH SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIREBIRD
SCALE 1:4	DATE 3/28/2013
SHEET 14 OF 17	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED


500 LBS MAX RATED LOAD

9.0

ARIAL FONT 1/2 TEXT HEIGHT

-53

LABEL

 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412-53	REV 1
MAT'L VINYL	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	FIREBIRD
SCALE 1:2	DATE 3/29/2013
SHEET 15 OF 17	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED


← ARIAL FONT, 1/2 TEXT HEIGHT

REMOVE BEFORE FLIGHT

← 8.6 →

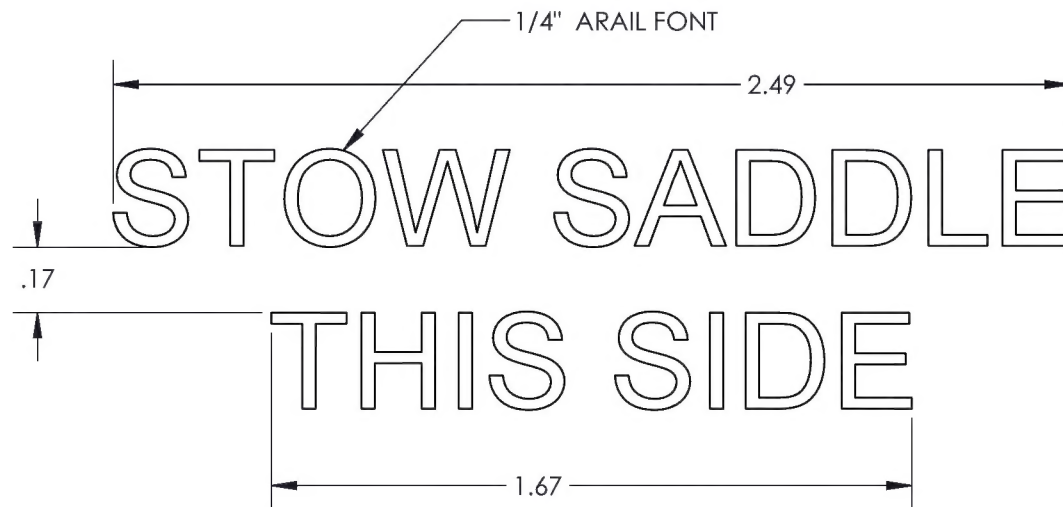
(-55)


LABEL

 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412-55	REV 1
MAT'L VINYL	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	FIREBIRD
SCALE 1:2	DATE 4/17/2013
	SHEET 16 OF 17

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



 RED BARN MACHINE	
TITLE BOOM SUPPORT	
DWG NO. RBT18412-57	REV 1
MAT'L VINYL	DRAWN BY:
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	APPROVED <i>D Weil</i>
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	HEAT TREAT FINISH
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SPEC
SCALE 1:2	USED ON MODEL FIREBIRD
DATE	SHEET 17 OF 17